

November 14 - 21, 2003

<P>The Terra spacecraft is in nominal mode. All instruments are in Science Mode.</P>

<P>The Solid State Recorder (SSR) Anomaly Investigation Team conducted a preliminary Command Authorization meeting (CAM) covering the recycle of the Data Memory Unit (DMU) boards on November 17, 2003. This would be executed in an attempt to recover functionality of the SSR Printed Wire Assembly (PWA) boards that ceased to record data properly on July 30, Sept. 24-25, and Oct. 14, 2003. The planned approach and developed procedure for the recycle seems sound, and preliminary results from the risk assessment indicate very minimal risk associated with the activity. The power recycle performed in 2001 involved a much more extensive procedure and required upload of numerous SSR firmware patches, and this proceeded very smoothly. The risk assessment for this potential recycle is ongoing, and there is no firm date planned for a DMU recycle at this time. The need for a recycle is not critical, but future PWA losses would increase operational challenges as well as the impetus for a decision on conducting the recycle activity.</P>

<P>The AETD radiation branch announced a preliminary conclusion during the last meeting of the Anomaly Investigation Team on Nov. 12 that Total Ionizing Dose (TID) is not likely to be the root cause of the PWA anomalies, based upon assessment of DRAM component histories and the fact that recurrent problems were not experienced with the PWA recovered in the power recycle conducted in order to recover from the SSR lockup anomaly in 2001. Complete schematics from the SSR were received from the SSR vendor on Nov. 21 and will be used in the ongoing assessment of the components and analysis of the potential failure mechanisms.</P>

<P>The lunar calibration roll maneuver previously planned for MODIS in November was not conducted due to the fact that it would have needed to occur in close proximity to one of the predicted peaks of the Leonid meteor shower. Extra on-line and off-line support for Terra in the EOS Operations Center (EOC) was provided for the two predicted peaks of the shower. No effects from the Leonids were seen.</P>

<P>The total solar eclipse of November 23 will be a partial eclipse from the Terra perspective, but a Command Authorization meeting (CAM) was conducted on Nov. 21 to cover the special activities required, as approximately 98 percent of the Sun's disk will be eclipsed from the Terra perspective. Only minor commanding modifications to charge rate values and settings will be required.</P>

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<P>Plans:

Lunar rolls for MODIS calibration will be resumed in December 2003.</P>